



We are focused on the  
**PolyPipe Market**  
for the Florida and Caribbean area

## Revinca

### BRINGS 50 YEARS

of HDPE pipe manufacturing experience ([www.revinca.com](http://www.revinca.com)) with products of proven quality based on the use of certified raw material.

The PE 4427/ PE-100 is the latest generation bimodal high-density polyethylene which exhibits superior toughness and resistance in aggressive applications. It can be used for the transportation of pressure water and gas, water sewer systems, electrical conduit, and all oil and gas application when we have crude oil, natural gas, produced water and for installation of fracking and salt water disposal networks.

This pipe is ideal for underground and above ground applications having a high resistance to corrosion, chemicals, temperatures and UV degradation.

We are focused on special applications with new piping or to solve problems in old existing systems with installation, replacement and repair by the trenchless method using horizontal Directional Drilling, Bursting, and Sliding Lining processes.

### WE PROMISE YOU **Premium Products and Services**

Using Plastic Pipe Institute listed PE 4710/ PE-100 raw material to meet the most demanding applications in water, gas distribution, Mining, Wastewater, landfill, industrial, energy and conduit for electrical systems. This raw material is stress rated for pressure pipe with and HDB rating of 1600 PSI at 73° F and 1000° PSI at 140° F.

Revincas products exceed the requirements of the applicable quality standards of ASTM D 2513, ASTM F2619, ASTM D 3035, ASTM F714, AWWA C901, AWWA C906 and API 15LE for the IPS standard sizes from 1 to 24 inch.

At the same time, we offered with the requirements of ISO 447 and ISO 4437 sizes from 25 to 630mm.

All the currently offering DR7, DR9, DR11 and DR17.

We can use client own metal pipe reels as well for the conduit.

Our pipe is black or black with stripes in color according for the service identification.

### REVINCA'S **HDPE Pipe**

#### OUR PRODUCTS HAVE:

- Excellent resistance to environmental and stress cracking, and to crack propagation.
- Smooth interior surface for high flow/low friction.
- Excellent weather resistance for surface installations.
- High impact strength, toughness and fatigue resistance.
- Outstanding corrosion and chemical resistance.
- Light Weight.
- Abrasion Resistance for mining applications.
- Cost-effective solution for trenchless pipe replacement systems.
- Easy join by Fusion.
- Cost-effective installation using lightweight equipment.

## CONTACT US

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# High Density Polyethylene PE-100 Black Pipe

## ISO 4427

### Metric Pipe sizes and pressure Class.

The pipe pressure class is calculated with a design factor of 1.25 on the minimum required strength value according to EN 12201 for 20 °C

Physical Properties	Nominal Value	Test Method
Carbon Black Content	2 to 2.2 % by Mass	ISO 6964
Density Compound	> 929 Kg/m <sup>3</sup>	ISO 1183-2
Melt Index, MFI.	0.23 g/10min	ISO 1183
Carbon Black Dispersion	<3	ISO18553
Melt Mass-Flow Rate	0.2 to 1.4 g/10 min	ISO 1133
Elongation at Break	> 400%	ISO 6559
Vicat Softening Temperature B	74 °C	ISO 306

Diameter	SDR 17		SDR 11		SDR 9		SDR 7,4	
	10 BAR/ 150 psi		16 BAR/ 235 psi		20 BAR/ 290 psi		25 BAR/ 360 psi	
	Min Wall	Weight Kg/m	Min Wall	Weight Kg/m	Min Wall	Weight Kg/m	Min Wall	Weight Kg/m
mm	Min Max	Min	Min Max	Min	Min Max	Min	Min Max	Min
32,0			3,0 3,5	0,280	3,6 4,2	0,327	4,5 5,2	0,393
40,0	2,4 2,8	0,294	3,7 4,3	0,431	4,5 5,2	0,509	5,6 6,4	0,610
50,0	3,0 3,5	0,456	4,6 5,3	0,667	5,6 6,4	0,790	6,9 7,8	0,940
63,0	3,8 4,4	0,723	5,8 6,6	1,055	7,1 8,0	1,257	8,7 9,8	1,490
75,0	4,5 5,2	1,016	6,8 7,7	1,472	8,4 9,4	1,768	10,4 11,6	2,115
90,0	5,4 6,1	1,458	8,2 9,2	2,124	10,1 11,3	2,547	12,5 14,0	3,046
110,0	6,6 7,5	2,172	10,0 11,2	3,161	12,3 13,7	3,787	15,2 16,9	4,526
125,0	7,4 8,3	2,766	11,4 12,7	4,090	14,0 15,6	4,893	17,3 19,2	5,849
160,0	9,5 10,7	4,532	14,6 16,3	6,693	17,9 19,9	7,999	22,1 24,5	9,558
200,0	11,9 13,3	7,082	18,2 20,2	10,420	22,4 24,8	12,499	27,6 30,6	14,912
250,0	14,8 16,5	10,997	22,7 25,2	16,234	27,9 30,9	19,456	34,5 38,2	23,287
315,0	18,7 20,8	17,482	28,6 31,7	25,751	35,2 38,9	30,904	43,5 48,1	36,974
355,0	21,1 23,4	22,217	32,2 35,6	32,667	39,7 43,9	39,266	49,0 54,1	46,932
400,0	23,7 26,3	28,111	36,3 40,1	41,480	44,7 49,4	49,809	55,2 60,9	59,564
450,0	26,7 29,6	35,605	40,9 45,2	52,666	50,3 55,5	63,166		
500,0	29,7 32,9	43,995	45,4 50,1	64,814	55,8 61,6	77,707		
560,0	33,2 36,7	55,103	50,8 56,1	81,384				
630,0	37,4 41,3	69,765	57,2 63,1	102,853				

Temperature °C	20	25	30	35	40	45	50	55	60
Reduction factor	1.0	0.93	0.87	0.80	0.74	0.67	0.61	0.54	0.48

**THIS BROCHURE IS INTENDED FOR REFERENCE PURPOSE ONLY AND IT SHOULD NOT BE USED IN PLACE OF THE ADVICE FROM A LICENSED ENGINEER.**

Pressure Rating is based on an operating temperature of 73°F (23°C) for normal water and buried installation. For different types of installations, fluids and temperatures, additional design safety factors should be considered. Maximum design temperature is 140°F ( 60°C ). For technical guidance, see PPI TR-9, "Recomended design factor for Thermoplastics Pipe" and PPI Handbook of PE Pipe.

